



AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (Currently Amended) A light emitting diode (LED) light engine comprising: a flexible electrical cable including first, second and third electrical conductors, a wire disposed the cable for delivering information through the cable and an electrically insulating covering material for the electrical conductors and the wire, the conductors ~~arranged substantially parallel with one another~~ and the wire having the insulating covering material therebetween and the wire providing communication between an associated controller and at least one of the LEDs;

a plurality of LEDs including

a first LED having a first lead electrically connected to the first electrical conductor and a second lead electrically connected to the second conductor,

a second LED having a first lead electrically connected to the second electrical conductor and a second lead electrically connected to the third conductor, and

a third LED having first and second leads electrically connected to the second conductor, wherein the third LED is interposed between the first LED and the second LED;

a plurality of prongs wherein each prong is in electrical communication with a respective lead of one of the LEDs, wherein each prong includes a tip adapted to pierce the insulating material of the flexible electrical cable ~~and a gap for receiving one of the conductors;~~ and

power conditioning electronics electrically connected to the first and third conductors, wherein the power conditioning electronics are adapted to convert AC power to DC power.

2. (Previously presented) The light engine of claim 1, further comprising a plurality of socket housings mechanically affixed to the flexible cable, wherein each socket housing receives at least one of the LEDs.

3. (Previously presented) The light engine of claim 2, wherein each socket housing receives at least one of the prongs.

4. (Previously presented) The light engine of claim 2, further comprising a mounting portion for allowing the light engine to mount to an associated structure, wherein the mounting portion is attached to the socket housing.

5. (Previously presented) The light engine of claim 2, wherein at least one of the socket housings includes a first section that selectively fastens to a second section, wherein the flexible cable is sandwiched between the first section and the second section such that a plane that intersects each of the electrical conductors is substantially perpendicular to a plane in which the LED that is received in the at least one socket resides.

6. (Previously presented) The light engine of claim 2, wherein at least one of the socket housings includes a member adapted to puncture the electrically insulating covering material and electrically separates the second electrical conductor when the first section is fastened to the second section, whereby preventing electricity from flowing through the second electrical conductor.

7. (Previously presented) The light engine of claim 1, further comprising an insulation barrier that separates the second electrical conductor to prevent an electrical connection between the first and second leads through the second electrical conductor.

8-9. (Cancelled).

10. (Previously presented) The light engine of claim 9, further comprising a plurality of wires disposed in the electrical cable, wherein each wire is in communication with a controller and at least one of the LEDs.

11. (Currently Amended) A channel letter including the light engine of claim [[1]]
21.

12. (Previously presented) The light engine of claim 1, further comprising a further plurality of LEDs each including electrical leads connected to the second wire, wherein the further plurality of LEDs are interposed between the first LED and the second LED.

13-15.(Cancelled).

16. (Previously presented) A light string comprising:
a flexible electrical cable including a pair of parallel conductors, a continuous series conductor and an electrically insulating material covering for the electrical conductors, the conductors having the insulating material therebetween;
a first plurality LEDs mechanically affixed to the cable and electrically connected to one another in parallel; and
a second plurality of LEDs mechanically affixed to the cable and interposed between two adjacent LEDs of the first plurality of LEDs, wherein the second plurality of LEDs are electrically connected to one another in series.

17. (Previously presented) The light string of claim 16, further comprising conditioning electronics in electrical communication with the plurality of LEDs, wherein the conditioning electronics convert AC power to DC power for driving the LEDs.

18. (Previously presented) The light string of claim 16, wherein the series conductor is interrupted by an insulated barrier at a plurality of locations along the series conductor.

19. (Previously presented) The light string of claim 18, wherein the insulated barrier comprises a dielectric material adapted to cut through the series conductor.

20. (Previously presented) The light string of claim 16, further comprising an additional wire disposed in the flexible electrical cable, wherein the additional wire is in communication with at least one of the LEDs.

21. (New) A light emitting diode (LED) light engine comprising:
a flexible electrical cable including first, second and third electrical conductors and an electrically insulating covering material for the electrical conductors;
a first socket housing mechanically affixed to the flexible cable;
a first LED received in the first socket housing and electrically connected to the first electrical conductor and the second conductor;
a second socket housing mechanically affixed to the flexible cable;
a second LED received in the second socket housing and electrically connected to the second electrical conductor and the third conductor;
a third socket housing mechanically affixed to the flexible cable;
a third LED received in the third socket housing and electrically connected to the second conductor at a first location and a second location that is spaced from the first location along the second conductor, the third LED being interposed between the first LED and the second LED; and
an insulation member disposed between the first location and the second location that separates the second electrical conductor to prohibit flow of electricity.

22. (New) The light engine of claim 21, further comprising:
a fourth socket housing mechanically affixed to the flexible cable;
a fourth LED received in the fourth socket housing and electrically connected to the second conductor at two locations that are spaced from one another along the second conductor, the fourth LED being interposed between the first LED and the second LED.

23. (New) The light engine of claim 21, further comprising insulation-piercing members disposed in the socket housings, the insulation-piercing members electrically connecting a respective LED to a respective electrical conductor.

24. (New) The light engine of claim 21, power conditioning electronics electrically connected to the first and third conductors, the power conditioning electronics being configured to convert AC power to DC power.

25. (New) The light engine of claim 21, further comprising a wire disposed in the flexible electrical cable.